

Interim Joint Committee on Education Career and Technical Education

Deborah Anderson, KDE Branch Manager College & Career Readiness

John Marks, OCTE Executive Director for CTE

October 11, 2010

Kentucky CTE Service Providers to Secondary Students

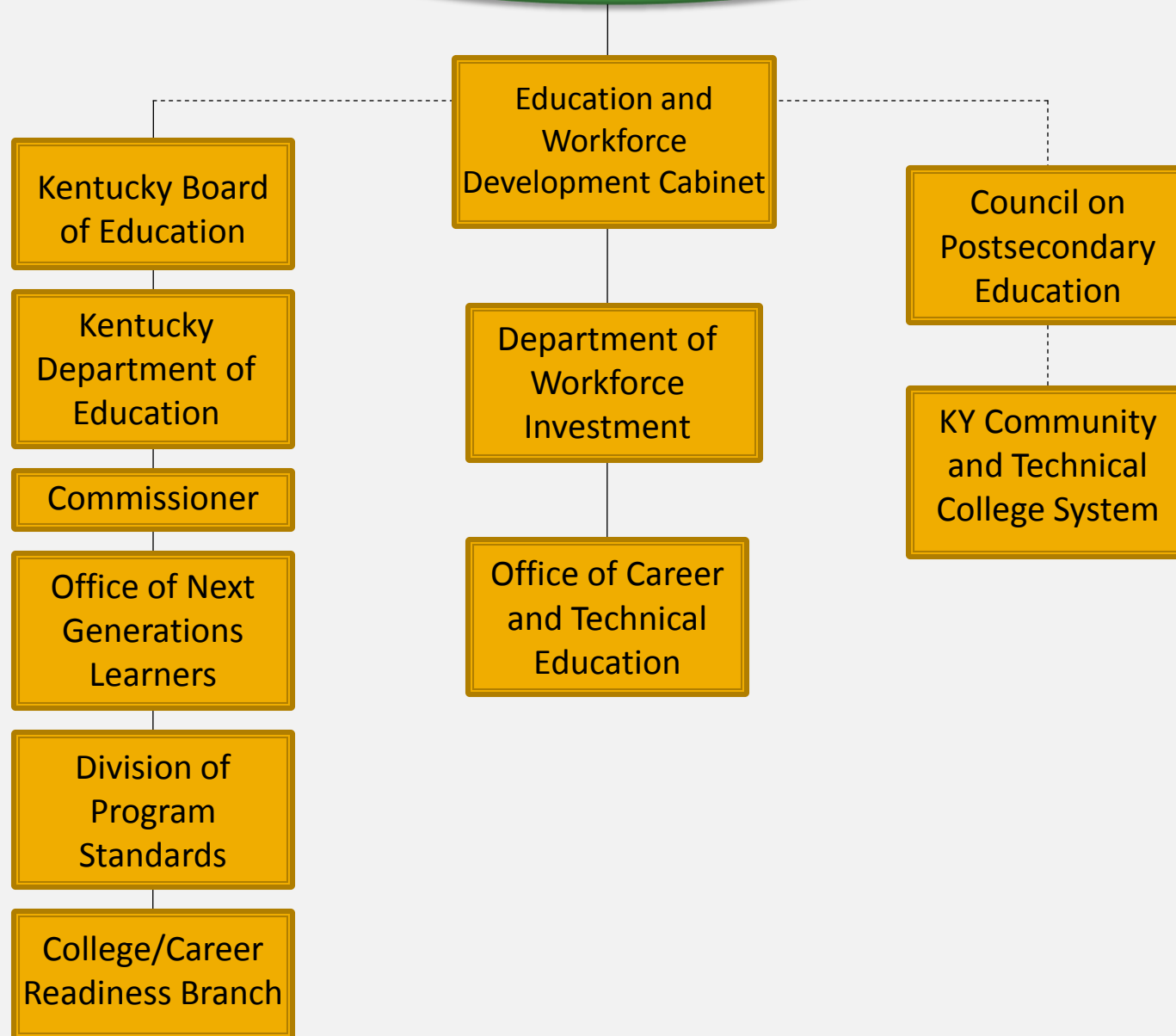
Kentucky Department of Education

Programs and Centers operated by
local school districts

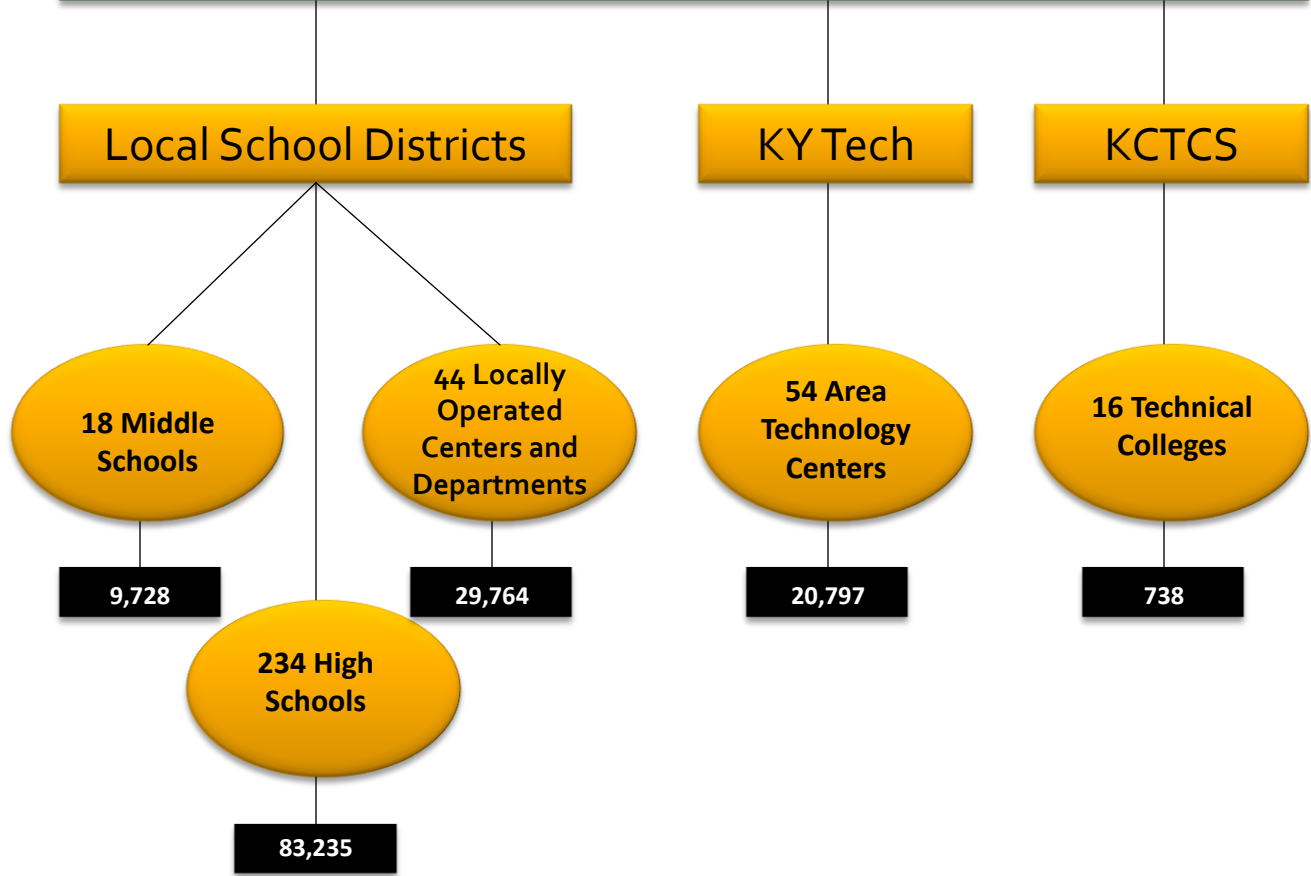
Office of Career & Technical Education

54 state-operated KY Tech area
technology centers

Governor's Office

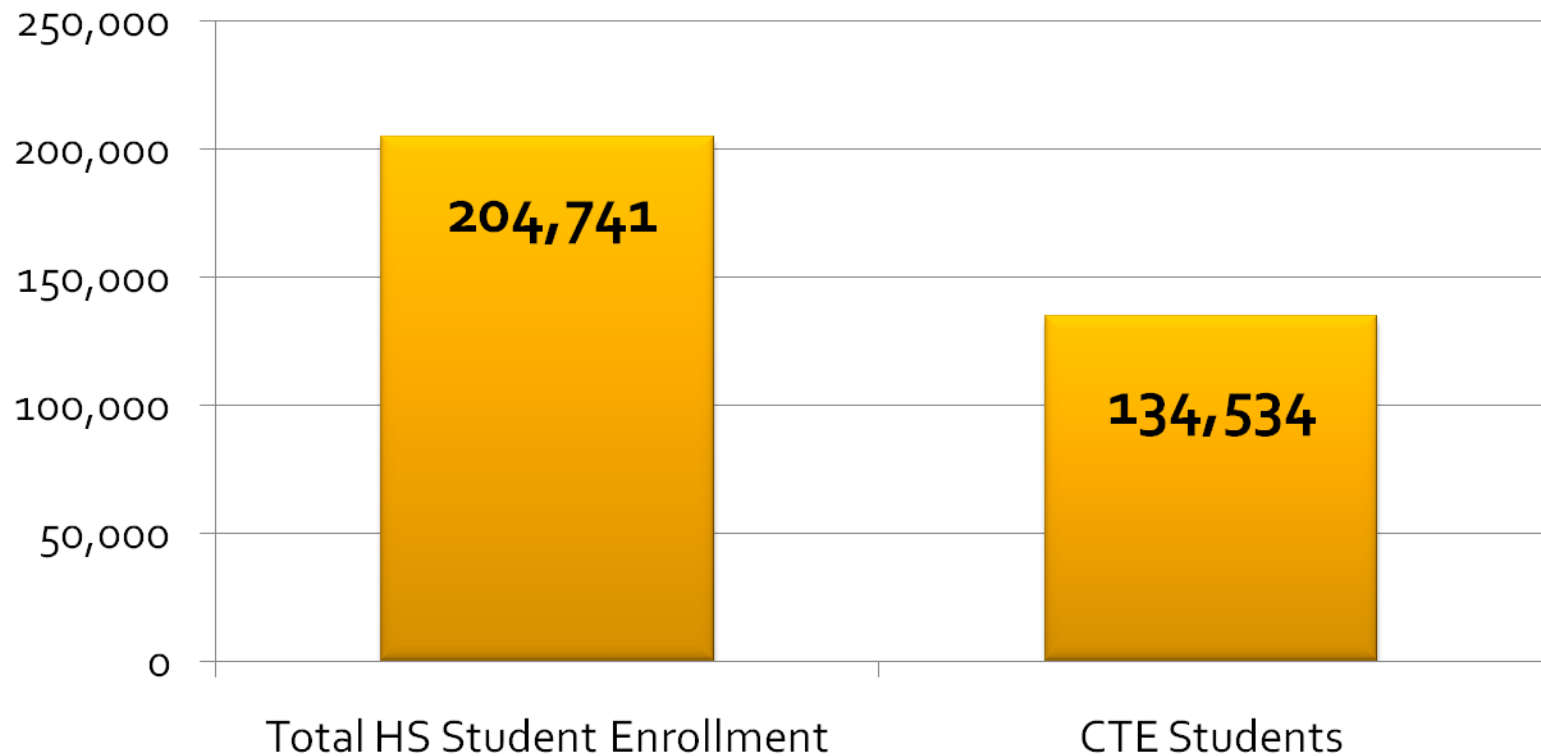


Career and Technical Education Delivery Systems and Enrollment



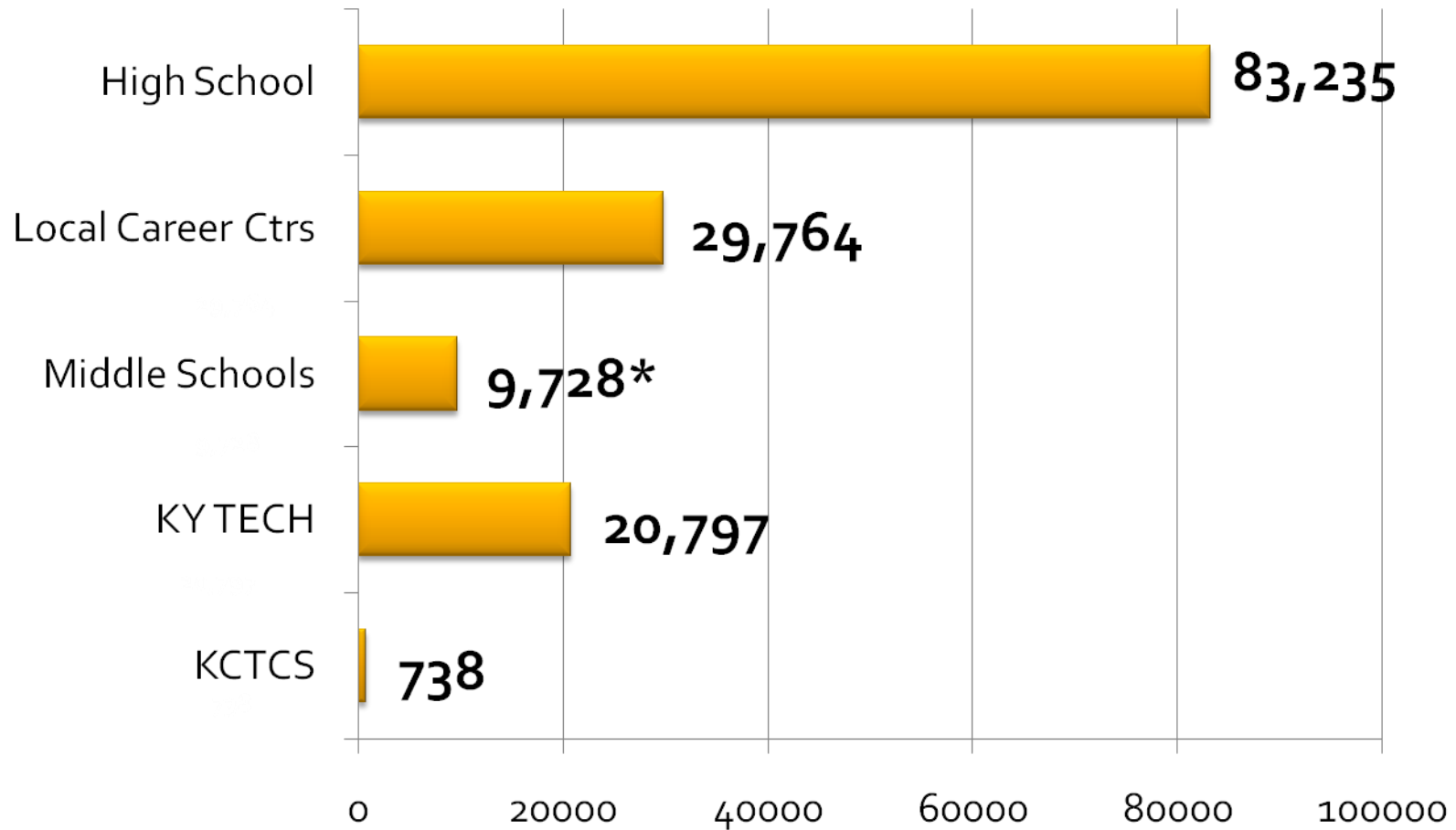
2008-2009 Secondary Enrollment

66% of KY High School Students Enrolled in CTE Programs



Based on 2008-2009 Data

Secondary CTE Enrollment by Service Provider



Based on 2008-2009 Data

CTE Enrollment in Middle Schools

- Types of Programs in Middle Schools
 - Technology Education Labs
 - Project Lead the Way/Gateway to Technology
 - Business Education
 - Family and Consumer Sciences

Total Middle School CTE Enrollment = 9,728*

Kentucky Career Pathways

- **Agriculture – 27,221**

- Animal Sciences
- Agribusiness
- Agribiotechnology
- Horticulture

- **Business – 55,056**

- Accounting and Finance
- Administrative Support
- Business Management
- Finance

Kentucky Career Pathways

■ **Communications – 4,197**

- Electronics Technology
- Computer Aided Drafting
- Computer Information Systems
- Multimedia/Printing/Telemedia

■ **Construction – 4,360**

- Air Conditioning
- Construction Mgt
- Heavy Equip Sciences
- Carpentry
- Electricity
- Masonry
- Plumbing
- Welding

Kentucky Career Pathways

- **Family Consumer – 8,302 Sciences/Human Services**
 - Early Childhood Education
 - Hospitality Services, Culinary Arts and Food Services
 - Cosmetology, Fashion & Interior Design
- **Health Science – 5,732**
 - Allied Health
 - Pre-Nursing
 - Health Science
 - Emergency & Fire Mgt

Kentucky Career Pathways

■ Information Technology – 6,985

- Information Support and Services
- Computer Programming
- GIS
- Network Administration

■ Manufacturing – 3,802

- Industrial Automation
- Industrial Chemical
- Industrial Maintenance
- Machine Tool
- Welding
- Wood Manufacturing

Kentucky Career Pathways

- **Marketing** – 6,181

- Advertising
- Fashion Marketing
- E-Commerce
- Hospitality, Travel, Tourism

- **STEM** – 11,965

- Engineering Technology
- Technology Education

- **Transportation** -2,433

- Automotive Technology
- Aviation Technology
- Collision Repair
- Small Engine Technology
- Diesel Technology

Kentucky CTE History

How did we get to the structure you see today?

- Prior to 1988 - CTE was in KDE – local and state operated schools both secondary and post-secondary.
- Historically, the State Dept. of Education had 3 separate functions relating to CTE :
 - Policy and program standards development
 - Management Operations – state-operated schools and programs. (secondary and postsecondary)
 - Sole State Agency for Federal Reporting

Kentucky CTE History

How did we get to the structure you see today?

- 1988 RS State Board for Adult Education, Vocational Education, and Vocational Rehabilitation was created by the General Assembly and attached to KDE.
 - Duties for governing KY Tech, Federal sole state agency (Perkins), adult education, vocational education, and vocational rehabilitation all were transferred to this board from the KY Board of Elementary and Secondary Education.

Kentucky CTE History

How did we get to the structure you see today?

- 1990 RS HB 814 was enacted that created the Cabinet for Workforce Development (CWD).
This act:
 - Restructured the State Board as the State Board for Adult and Technical Education;
 - Transferred the sole state agency (Perkins) responsibilities to the new cabinet.

Kentucky CTE History

How did we get to the structure you see today?

- 1990 Continued...
 - Transferred the KY Tech (post-secondary and secondary) system to the Cabinet (the name KY Tech was officially branded in the same year).
 - Established that the Board promulgate administrative regulations for a personnel system, codified under KRS Chapter 151B for certified and equivalent employees.

Kentucky CTE History

How did we get to the structure you see today?

- 1994 the Department for Adult and Technical Education was reorganized into 2 departments by Executive Order.
- 1997 SS Postsecondary Education Improvement Act was enacted.
 - KCTCS Created

Kentucky CTE History

How did we get to the structure you see today?

- 1997 Continues...
 - Transferred postsecondary vocational/technical schools, adult correctional programs and services to KCTCS.
 - Sole State Agency for Federal Programs left in Cabinet for Workforce Development.
 - KY Tech Area Technology Centers remained in the Cabinet for Workforce Development.

Kentucky CTE History

How did we get to the structure you see today?

- 2001 Regular Session (RS) HB 185 was enacted which required:
 - Assessment of program quality;
 - Funding Distribution to locally operated centers;
 - Accessibility study.
- 2003 – Elimination of state board. SB 193 enacted that reorganized parts of the CWD dealing with Kentucky Tech and Adult Education.

Kentucky CTE History

How did we get to the structure you see today?

- 2004 – Workforce Development Cabinet abolished by Executive Order.
 - Department for Technical Education became the Office of Career and Technical Education.
- 2007 – Education Cabinet Renamed.
 - OCTE now resides in the Education and Workforce Development Cabinet.

Kentucky CTE History

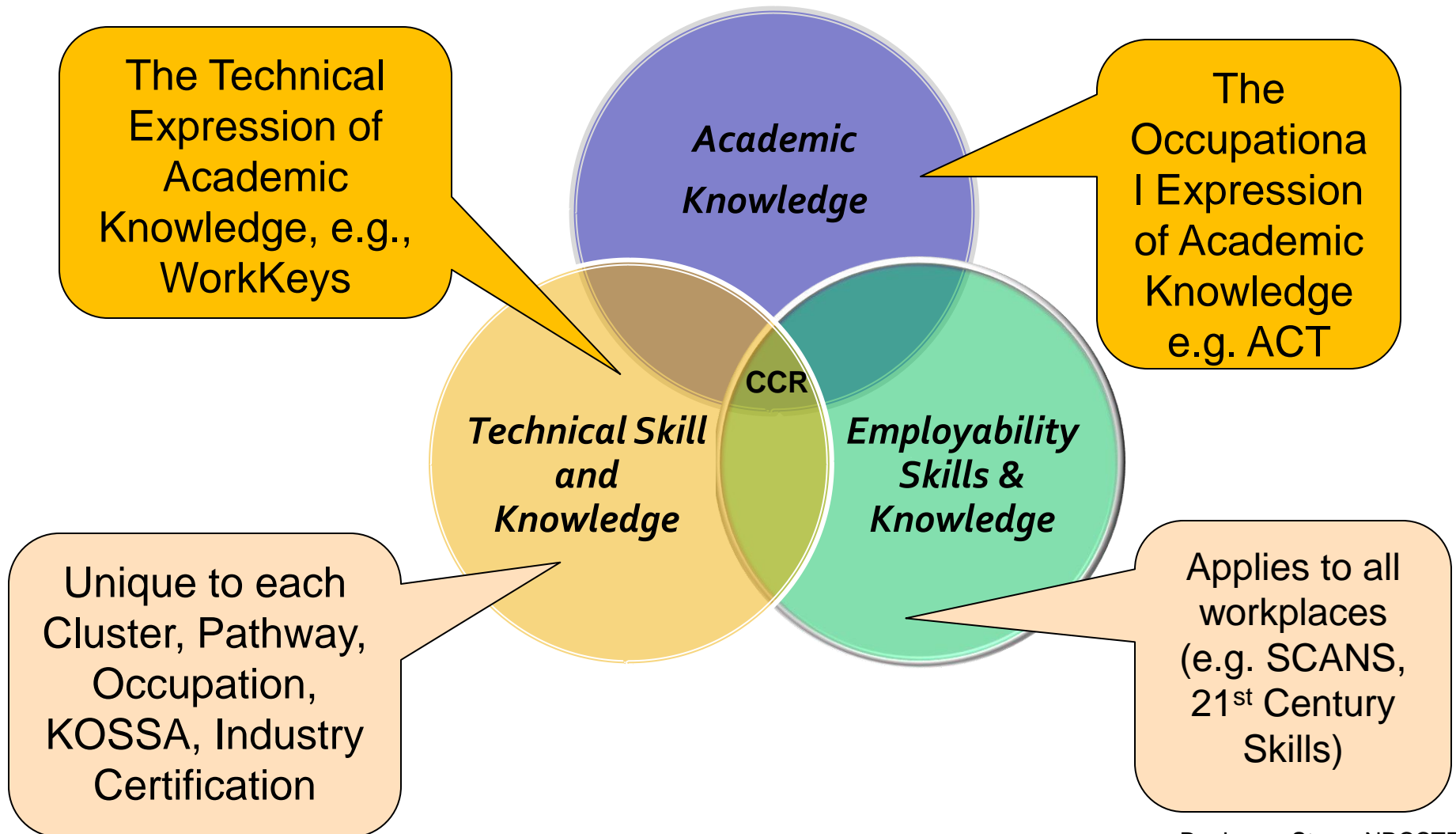
How did we get to the structure you see today?

- 2010 – Department of Education Reorganized
 - KDE Division for Career and Technical Education converted to the Branch for College and Career Readiness.
 - New branch now in Office of Next Generation Learners under the Division of Program Standards.
 - *Pending Governor's approval*

Why Is Career & Technical Education Important to KY Students?

- Relevance
- Focus & Engagement
- Relationship with Career Experts
- Accelerated Learning
- Viable Careers
 - High Skilled, High Wage, High Demand

Career and College Ready: Skills

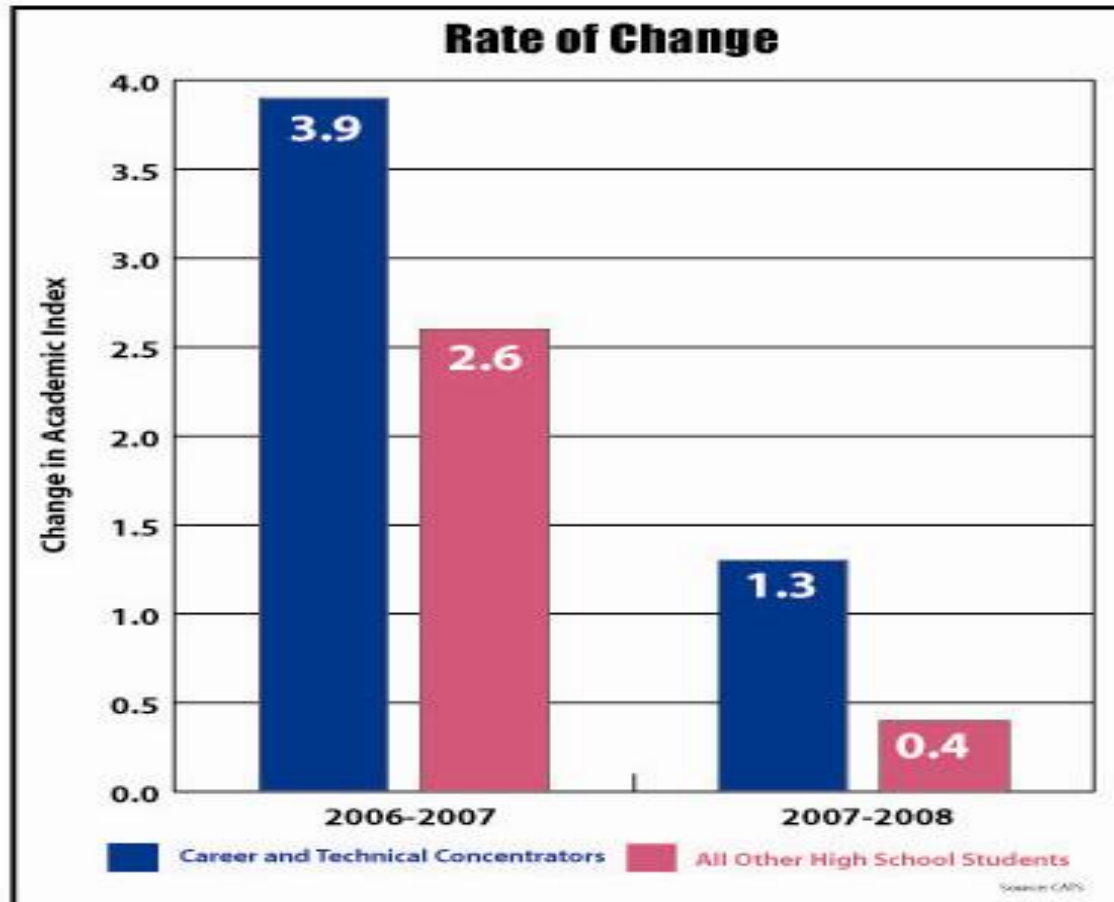


Goal for All (CTE) Students

College and Career Ready

- Complete a sequence of courses in a concentrated area of study.
- Earn academic and technical credentials upon completion and high school graduation .
- Imbedded leadership experience.
 - Such as FBLA, FFA, Skills USA, etc.
- Successful transition to postsecondary, workforce or the military.

CTE Students Academic Growth Rate Higher than All Other HS Students



Recognized Industry Certifications



NIMs®

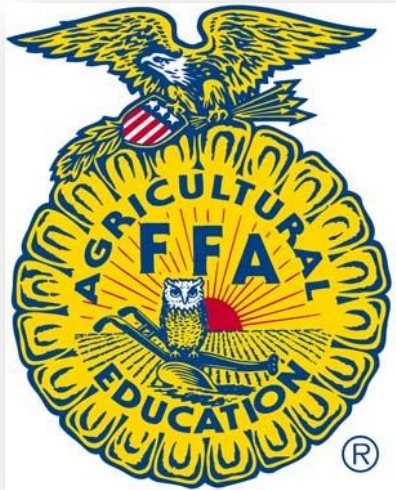
National Institute for Metalworking Skills, Inc.

Integration of Curriculum and Student Organization Activities

Career and Technical Student Organizations (CTSOs) are co-curricular and embedded into the program curriculum.

- **Leadership Skill Development**
 - Community & Civic Engagement
- **Technical Skill Development**
 - Performance Events
- **Employability Skill Development**
 - Supports Secretary of Labor's Commission on Achieving Necessary Skills (SCANS) and 21st Century Skills.

Career & Technical Student Organizations



Approximately 45,000 student members
Statewide



Dual Credit

- Articulation
- Dual Credit
- Close The Deal
- AmeriCorp Project

Innovative Projects

- SREB/HSTW Curriculum Development
 - *"Preparation for Tomorrow"*
- Transitions Project
 - Developing Transitional Programs of Study
- Interdisciplinary Course Development
 - 9 courses mapped to meet academic required coursework



Challenges

- Career Guidance and Advising
- Culture – Stereotypical views of CTE
- Promoting CTE as an interdisciplinary approach to high school instruction

Challenges

- Working within State Budget Reduction to:
 - Maintain teaching positions;
 - Provide adequate professional development;
 - Supply and equip programs;
 - Respond to an increasing demand for new schools and programs.

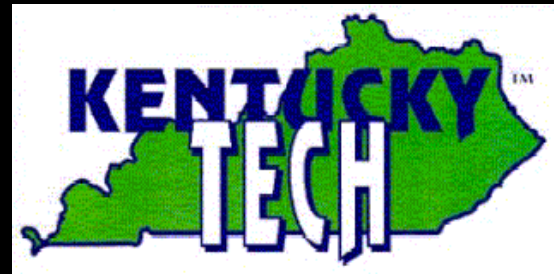
Challenges

- Graduation Requirements
- Teacher Certification/ HQE Requirement
 - Pre-service
 - In-service
- Integration needs to be standard practice for teachers not just to CTE instructors

Challenges

- Serving students in shared-time centers
 - School Calendars
 - Daily Schedules
 - Transportation
 - Building relationships with local districts
 - Planning Academic Schedules
 - Involvement in Local Professional Development
 - Common Planning time with Academic Teachers

Office of Career and Technical Education KY Tech



John Marks, Executive Director

KY Tech School District Presentation

- KY Tech Map - Structure
- KY Tech Director Responsibilities
- KY Tech Program Services
- Services provided for all of CTE
- Opportunities

[illegible]

- KY Tech – Greenup County ATC
- KY Tech – Russell ATC

- KY Tech – Belfry ATC
- KY Tech – Millard ATC

*Department for Workforce Investment
Education and Workforce Development Cabinet
September 20, 2010*

KY Tech Structure

- First SACSC-CASI Accredited Technical Education School District in the US
- 42 District Staff in Frankfort/Business Offices
- 54 KY Tech Area Technology Centers (ATCs)
 - 54 Principals
 - 120 Classified Staff
 - 430 Teachers
- CTE Programs and Staff Juvenile Justice Centers.
- 21,000 students enrolled from 127 school districts

OCTE/KY Tech Responsibilities

- Policy Development
- Sole State Agency
- KY Tech Management
- Technical Support / Leadership

Policy Development

- Internal Policies for KY Tech/151b
- System to System Articulation with KCTCS &...
- Dual Credit Agreements

Perkins Funding



The Perkins Act provides Federal funds for vocational-technical programs.

\$1.3 Billion Nationally

Approximately *\$20 million* to Kentucky

Sole State Agency

- Distribution of 20 Million in Perkins Funds
- Writing State Plan
- Training Eligible Recipients
- Data Collection
- Monitoring
- Liaison to US DOE / OVAE

KY Tech Management

- 54 Area Technology Centers
- 40 Million Dollar Budget
- 430 Teachers
- 54 Principals
- 120 Classified Staff
- Two Personnel Systems
- 21,000 Students from 127 Districts

KY Tech Management, Cont...

- Central Office (Superintendent) Functions Include:
 - Finance and Budget
 - Personnel Development and Management
 - Supervision
 - Public Information
 - Program Implementation and Operation that parallels any other large scale school district

Technical Support/Leadership

- Specialized Consultants in:
 - Health
 - Manufacturing
 - Transportation
 - Business
 - Information Technology
 - Construction
- Statewide Support and Leadership for:
 - FBLA
 - HOSA
 - Skills USA

Technical Support/Leadership, Cont...

- Technology Education Data System (TEDS)
- New Teacher Institute (NTI)
- Virtual Area Technology Center
- National Occupational Competency Testing (NOCTI)
- Juvenile Justice
- Program Assessment
- Business and Industry Partnerships
- Business and Industry Training

Opportunities

- Leading the KY Tech curriculum and classroom instruction into the academic and technical levels needed for the 21st century.
- Learning to trust the data that drives systematic improvement.
- Finding ways to work more closely with academic departments at the local and district levels.

College and Career Readiness

Kentucky Dept of Education
Office of Next Generation Learners
Division of Program Standards
College & Career Readiness Branch



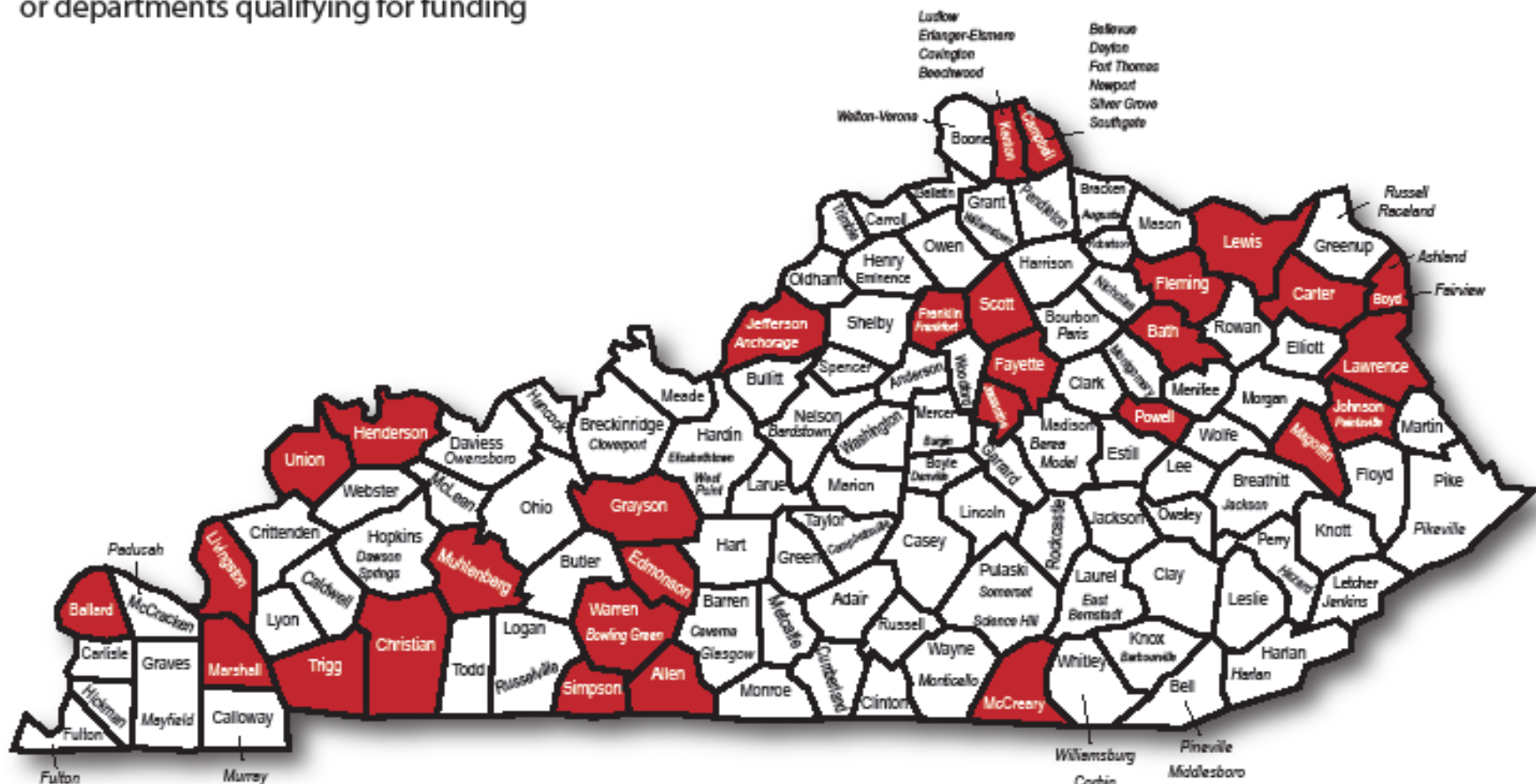
Deborah Anderson, Branch Manager

CTE Locations

- Total Student Enrollment = 122,727
- CTE is provided at:
 - 234 High Schools;
 - 18 Middle Schools;
 - 44 Locally Operated Centers or Departments.

2010-2011

30 school districts with approved centers
or departments qualifying for funding



Branch for College & Career Readiness

- Frankfort Staff
 - 18 staff members include:
 - Branch Manager, Program Consultants and Support Staff
- FFA Leadership Training Center (Hardinsburg)
 - Provides leadership training programs for all CTE students
 - 3.5 staff members include:
 - Consultant/Director, Support Staff and Maintenance
 - 29 Seasonal Employees

CTE Functions:

- Policy development for all secondary CTE providers
 - Sets minimum program standards for all secondary CTE
 - Identifies courses for the KY Program of Studies
 - Sets guidelines for all secondary CTE facilities
 - Provides technical support in the development of curriculum including CTE courses for academic credit
 - Provides input into program assessments
 - Makes recommendations for appropriate CTE teacher and administrator certification requirements

CTE Functions, Cont.....

- Federal Perkins Act Responsibilities
 - Reviews and approves local district Perkins funding requests
 - Monitors grant spending
 - Provides technical assistance
 - Monitors progress toward federal indicators of success
- School Operations
 - KDE does not operate schools but provides consultative services and technical support

CTE Functions, Cont.....

- Technical Support & Statewide Leadership
 - Provides professional development, training and support for CTE teachers
 - Provides leadership to co-curricular student organizations
 - Family, Career and Community Leaders of America
 - The FFA
 - DECA (An organization for Marketing Students)
 - Technical Students of America
 - Assists districts in the use of Technical Education Data Base
 - SREB/*High Schools that Work*

CTE Functions, Cont...

- Technical Support & Statewide Leadership
 - Jobs for America's Graduates (JAG)
 - Operates the FFA Leadership Training Center
 - Develops and administers state-wide technical assessments, Kentucky Occupational Skills Standards Assessment (KOSSA)
 - Develops and maintains partnerships with respective business and industry groups

Program Funding

- High School
 - Base Seek
 - Federal Perkins' Allocations
- Middle School (MS)
 - Base Seek
 - Note: Perkins cannot be spent at MS
- Locally Operated Centers
 - Base Seek
 - State Supplemental Dollars
 - Less than 50% of districts' operating costs
 - Share of Federal Perkins allocation

Opportunities

- Growing interest in CTE expansion statewide – districts building facilities and adding programs
- Poised to be part of Secondary School Reform
 - College/Career Readiness
 - SREB/*HSTW*

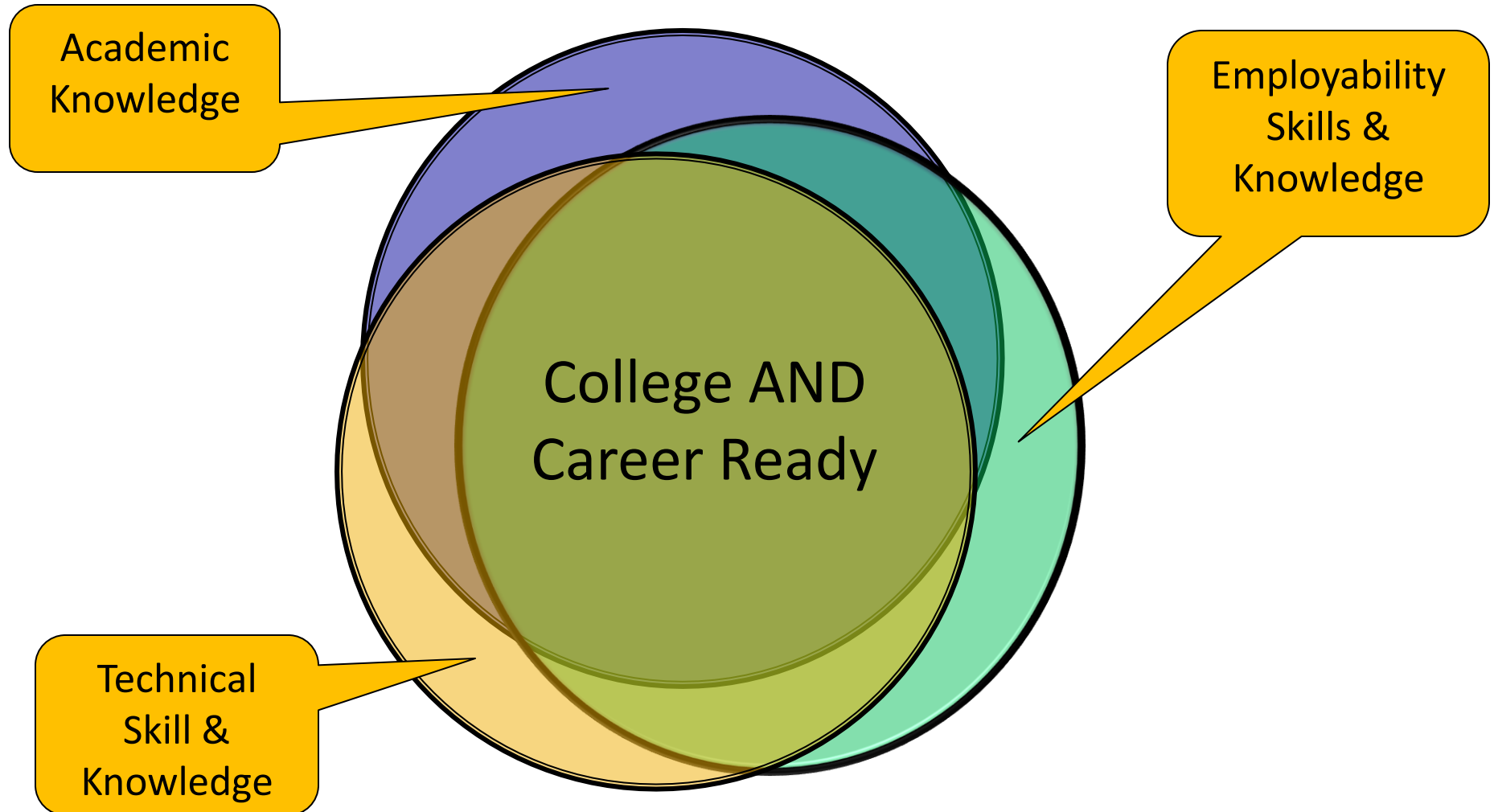
Opportunities

- School Accountability Measures Supports Career and Technical Education
 - Program Reviews – 25%
 - Career Readiness Measure
- Increased need for skilled employees in the workforce

Conclusion

- Our past has shaped who we are.
- KY CTE is today:
 - Serving 66% of high school students
 - Providing academic, employability and technical education
 - 8,000 students earning college credit
 - Increasing accountability scores
 - Developing new career programs

What Are the Possibilities?



Final Thought.....

High school is the last education opportunity paid for wholly by the public. It's purpose has to be to do the best it can to provide *all* who leave it the foundation necessary to enter, or further prepare for, adult life.

Barton, 2006

Questions?

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